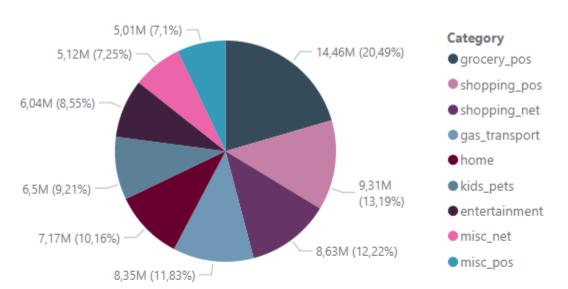
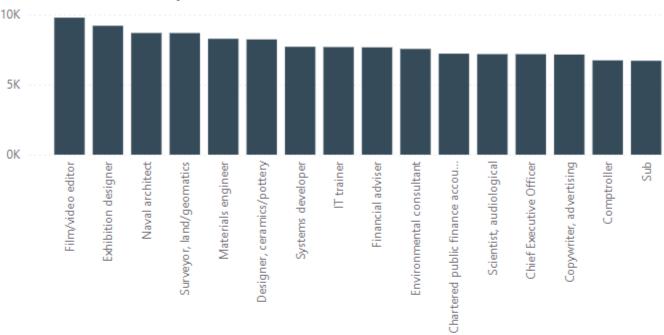


## Percentage of Sales by Category



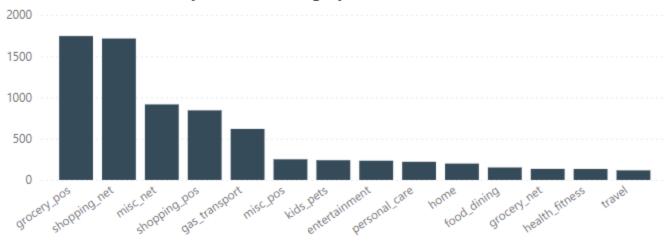
# Count of Transactions by Profession



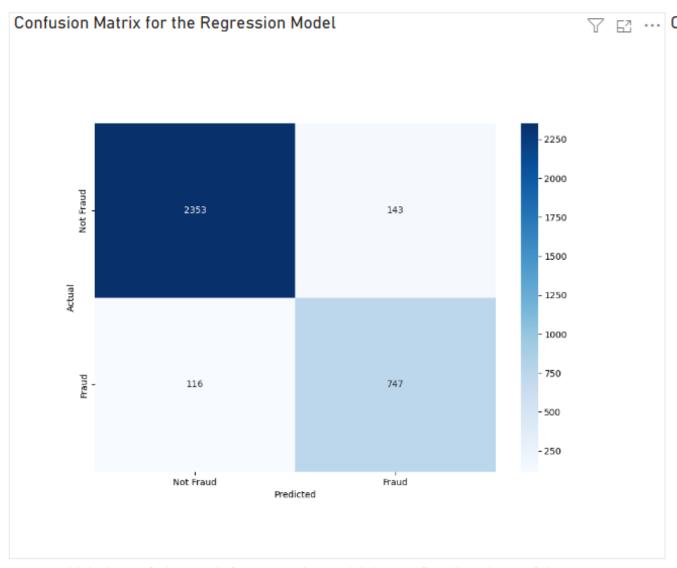
#### Regional Distribution of Credit Card Purchases



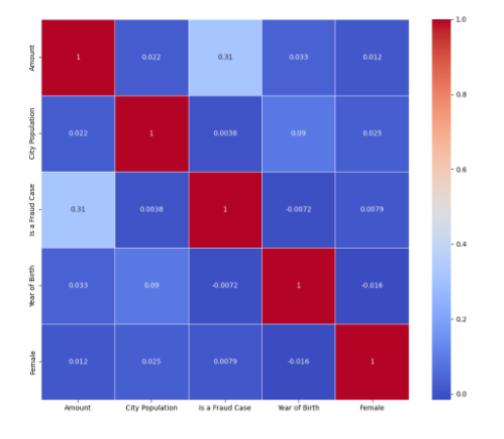
### Number of Fraud Cases by Purchase Category



Category



#### Confusion Matrix for Selected Variables from the Model



This is the Confusion Matrix for a regression model that was fitted based on 7 of the variables present in the data set. As we can see from the dataset the model correctly predicts around 92% of cases given to it. This could be improved further through more data becoming available or more normalized job categories or time values in further analysis.

This correlation matrix shows us which variables from our data set have the greatest impact on fraud, higher numbers represent a higher correlation with fraud and vice versa. As we can see from the matrix, city population and being female both have positive effects on falling victim to fraud. However, the biggest positive correlation is between the amount of a transaction and fraud.